



Wells College

Name: \_\_\_\_\_

Advisor: \_\_\_\_\_

Graduation Year: \_\_\_\_\_

## Environmental Science Major

The number of courses required for the major is 14 (45-50 semester hours). Off-campus study courses may substitute for some of the requirements below.

### Requirements:

#### All of the following (32-34 sem. hrs.)

- BIOL 119L Ecology and Evolution (4 sem. hrs.)
- ENVR 101L Introduction to Environmental Science (4 sem. hrs.)
- ENVR 102L Conservation of Biodiversity (4 sem. hrs.)
- ENVR 131L Physical Geology (4 sem. hrs.)
- ENVR 196 Tutorial in Geographic Information Systems (1 sem. hr.)
- ENVR 290/390 Internship in Environmental Science (2-4 sem. hrs.)
- ENVR 303 Environmental Impact Assessment (3 sem. hrs.)
- ENVR 340 Sustainable Agriculture (3 sem. hrs.)
- ENVR 403 Senior Thesis in Environmental Science (4 sem. hrs.)
- MATH 151 Elementary Statistics (3 sem. hrs.)
  - or MATH 251 Mathematical Statistics (3 sem. hrs.)

#### Four courses in Biology OR four courses in Chemistry OR four courses in Physics, as indicated below (13-16 sem. hrs.)

#### BIOLOGY SPECIALIZATION

- BIOL 130L Biology of Organisms (4 sem. hrs.)
- BIOL 304L Vertebrate Zoology (4 sem. hrs.)
- BIOL 305 Terrestrial Field Biology (3 sem. hrs.)
- BIOL 324L Animal Behavior (4 sem. hrs.)
- BIOL 325L Limnology (4 sem. hrs.)
- BIOL 363 Advanced Ecology (4 sem. hrs.)

#### CHEMISTRY SPECIALIZATION

- CHEM 107L General Chemistry (4 sem. hrs.)
- CHEM 108L Chemical Analysis (4 sem. hrs.)
- CHEM 213L Organic Chemistry I (4 sem. hrs.)
- CHEM 214L Organic Chemistry II (4 sem. hrs.)
- CHEM 301 Physical Chemistry (3 sem. hrs.)
- CHEM 315L Inorganic Chemistry (4 sem. hrs.)
- CHEM 327L Instrumental Analysis (4 sem. hrs.)

#### MATHEMATICAL AND PHYSICAL SCIENCES SPECIALIZATION

- MATH 111 Calculus I: Introduction to Calculus (4 sem. hrs.)
- MATH 112 Calculus II: Introduction to Calculus (4 sem. hrs.)
- MATH 211 Calculus III: Multivariable Calculus (3 sem. hrs.)
- PHYS 106 Introductory Astronomy (3 sem. hrs.)
- PHYS 111L Fundamentals of Physics I (4 sem. hrs.)
- PHYS 212L Fundamentals of Physics II (4 sem. hrs.)
- PHYS 221L Principles of Electronics (4 sem. hrs.)

# What can I do with this major?

See below for examples of what you can do with an Environmental Sciences major after graduation!

For more information, see the full results at <http://whatcanidowiththismajor.com/major/>

## Areas of employment

- Environmental Remediation
- Environmental Compliance
- Soil Science
- Waste Management
- Air Quality Management
- Water Quality Management
- Planning and Conservation
- Environmental Education

## Possible Employers

- Federal/State/Local Government
- State farm bureaus
- Environmental research labs
- Privately owned farms/ranches
- Universities
- Consulting firms
- Private laboratories
- Nonprofit organizations
- Water treatment plants
- Wildlife ranges
- Utilities companies
- Forestry companies
- Museums
- Zoos

- A bachelor's degree will qualify one for entry level work in a variety of technical and non-technical fields related to the environment. Examples include environmental research assistant, environmental educator, field/outdoor instructor and environmental writer.
- A master's degrees allow for greater specialization in a field and more opportunities in research and administration. Some community colleges will hire Master's level teachers.
- Doctoral degrees are necessary for advanced research and administrative positions, university teaching and independent research.